

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/005727

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H05B6/66 H05B6/68		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 H05B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 0163, no. 02 (M-1275), 3 July 1992 (1992-07-03) & JP 4 084026 A (TOSHIBA CORP), 17 March 1992 (1992-03-17)	6
A	abstract	1-5, 7-10
X	EP 0 301 805 A (MATSUSHITA ELECTRIC IND CO LTD) 1 February 1989 (1989-02-01)	1, 2, 4, 10
Y	abstract column 7, line 1 - line 4 column 8, line 2; figure 4 column 12, line 45 - line 50; claim 3 ----- -/-	7
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family		
Date of the actual completion of the international search  22 July 2004		Date of mailing of the international search report  03/08/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  Henderson, R

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 5 274 208 A (NODA TOMIMITSU) 28 December 1993 (1993-12-28)	1,2,4,10
Y	abstract column 1, line 5 - line 46; figures 1,12 column 11, line 34 - column 12, line 9 -----	7
Y	US 5 548 101 A (LEE EUNG H) 20 August 1996 (1996-08-20)	7
A	the whole document -----	1-6,8-10
A	PATENT ABSTRACTS OF JAPAN vol. 0151, no. 06 (E-1044), 13 March 1991 (1991-03-13) & JP 2 312182 A (TOSHIBA CORP), 27 December 1990 (1990-12-27) abstract -----	1-10

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Information on patent family members

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